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TECHNICAL MEMORANDUM

TO: Brian K. Davis, Senior Planner

FROM: Christer P. Carshult, P.E., County Engineer *CPC*

DATE: April 19, 2002

SUBJECT: Charles & Thelma Jamison, Trustees
Jamison Farm Special Exception Floodplain Study
New Baltimore Service District (Area 'A' – Non Sewered Area)
SE02-S-19

A review of the above referenced Special Exception request has been performed. This does not constitute a complete technical review of the proposed project. A formal review will be performed pending request by the applicant following Planning Commission and/or Board of Supervisors action. The study proposes two (2) crossings of the FEMA defined 100-year floodplain. The smaller of the two occurs on a tributary to Mill Run and proposes a single 6' tall by 12' wide box culvert. The other occurs on Mill Run and proposes a multi-cell box culvert. This one consists of six (6) 3' tall by 5' wide box culverts resulting in a culvert measuring 3' tall and 30' wide. Based on the information provided in the request, the following observations are offered for your consideration:

- 1 The study appears to have been prepared utilizing generally accepted hydrologic and hydraulic practices which are in a format that should be acceptable to FEMA for review and approval.
2. The multi-cell box culvert should be revised to reflect the minimum Rise (height) of box culverts acceptable by VDOT so as to not affect the eligibility for acceptance of the proposed roads. VDOT requires that all box culverts have a minimum rise of 4', this study proposes culverts with a rise of 3'.
- 3 Stormwater Management facilities are proposed within the revised existing 100-year floodplain limits. These facilities should be established outside the limits of

the revised existing floodplain limits. The locations are conceptual in nature and final design of these facilities is not complete. The size of the facilities could substantially increase based on final design and result in significant fill and/or encroachment into the floodplain. These facilities should not be approved as a part of this special exception request.

- 4 The study indicates that there will be no offsite increases to the 100-year floodplain limits as a result of the crossings.
- 5 The standard conditions as they relate to floodplain modifications should be required.
- 6 All Federal, State, and Local permits will be required prior to final study and subdivision plan approval.

Should you have any questions regarding this review, please contact me.